

DECISION DOCUMENT
NATIONWIDE PERMIT 27

This document discusses the factors considered by the Corps of Engineers (Corps) during the modification process for this Nationwide Permit (NWP). This document contains: (1) the public interest review required by Corps regulations at 33 CFR 320.4(a)(1) and (2); (2) a discussion of the environmental considerations necessary to comply with the National Environmental Policy Act; and (3) the impact analysis specified in Subparts C through F of the 404(b)(1) Guidelines (40 CFR Part 230). This evaluation of the NWP includes a discussion of compliance with applicable laws, consideration of public comments, an alternatives analysis, and a general assessment of individual and cumulative impacts, including the general potential effects on each of the public interest factors specified at 33 CFR 320.4(a).

1. STREAM AND WETLAND RESTORATION ACTIVITIES. Activities in waters of the United States associated with the restoration of former waters, the enhancement of degraded tidal and non-tidal wetlands and riparian areas, the creation of tidal and non-tidal wetlands and riparian areas, and the restoration and enhancement of non-tidal streams and non-tidal open water areas as follows:

(a) The activity is conducted on:

(1) Non-Federal public lands and private lands, in accordance with the terms and conditions of a binding wetland enhancement, restoration, or creation agreement between the landowner and the U.S. Fish and Wildlife Service (FWS) or the Natural Resources Conservation Service (NRCS) or voluntary wetland restoration, enhancement, and creation actions documented by the NRCS pursuant to NRCS regulations; or

(2) Any Federal land; or

(3) Reclaimed surface coal mined lands, in accordance with a Surface Mining Control and Reclamation Act permit issued by the Office of Surface Mining or the applicable state agency (the future reversion does not apply to streams or wetlands created, restored, or enhanced as mitigation for the mining impacts, nor naturally due to hydrologic or topographic features, nor for a mitigation bank); or

(4) Any private or public land;

(b) Notification: For activities on any private or public land that are not described by paragraphs (a)(1), (a)(2), or (a)(3) above, the permittee must notify the District Engineer in accordance with General Condition 13; and

(c) Only native plant species should be planted at the site, if permittee is vegetating the project site.

Activities authorized by this NWP include, but are not limited to: the removal of accumulated sediments; the installation, removal, and maintenance of small water control structures, dikes, and berms; the installation of current deflectors; the enhancement, restoration, or creation of riffle and pool stream structure; the placement of in-stream habitat structures; modifications of the stream bed and/or banks to restore or create stream meanders; the backfilling of artificial channels and drainage ditches; the removal of existing drainage structures; the construction of small nesting islands; the construction of open water areas; activities needed to reestablish vegetation, including plowing or disking for seed bed preparation; mechanized landclearing to remove undesirable vegetation; and other related activities.

This NWP does not authorize the conversion of a stream to another aquatic use, such as the creation of an impoundment for waterfowl habitat. This NWP does not authorize stream channelization. This NWP does not authorize the conversion of natural wetlands to another aquatic use, such as creation of waterfowl impoundments where a forested wetland previously existed. However, this NWP authorizes the relocation of non-tidal waters, including non-tidal wetlands, on the project site provided there are net gains in aquatic resource functions and values. For example, this NWP may authorize the creation of an open water impoundment in a non-tidal emergent wetland, provided the non-tidal emergent wetland is replaced by creating that wetland type on the project site. This NWP does not authorize the relocation of tidal waters or the conversion of tidal waters, including tidal wetlands, to other aquatic uses, such as the conversion of tidal wetlands into open water impoundments.

Reversion. For enhancement, restoration, and creation projects conducted under paragraphs (a)(2) and (a)(4), this NWP does not authorize any future discharge of dredged or fill material associated with the reversion of the area to its prior condition. In such cases a separate permit would be required for any reversion. For restoration, enhancement, and creation projects conducted under paragraphs (a)(1) and (a)(3), this NWP also authorizes any future discharge of dredged or fill material associated with the reversion of the area to its documented prior condition and use (i.e., prior to the restoration, enhancement, or creation activities) within five years after expiration of a limited term wetland restoration or creation agreement or permit, even if the discharge occurs after this NWP expires. This NWP also authorizes the reversion of wetlands that were restored, enhanced, or created on prior-converted cropland that has not been abandoned, in accordance with a binding agreement between the landowner and NRCS or FWS (even though the restoration, enhancement, or creation activity did not require a Section 404 permit). The five-year reversion limit does not apply to agreements without time limits reached under paragraph (a)(1). The prior condition will be documented in the original agreement or permit, and the determination of return to prior conditions will be made by the Federal agency or appropriate State

agency executing the agreement or permit. Prior to any reversion activity, the permittee or the appropriate Federal or State agency must notify the District Engineer and include the documentation of the prior condition. Once an area has reverted back to its prior physical condition, it will be subject to whatever the Corps regulatory requirements will be at that future date. (Sections 10 and 404)

Note: Compensatory mitigation is not required for activities authorized by this NWP, provided the authorized work results in a net increase in aquatic resource functions and values in the project area. This NWP can be used to authorize compensatory mitigation projects, including mitigation banks, provided the permittee notifies the District Engineer in accordance with General Condition 13, and the project includes compensatory mitigation for impacts to waters of the United States caused by the authorized work. However, this NWP does not authorize the reversion of an area used for a compensatory mitigation project to its prior condition. NWP 27 can be used to authorize impacts at a mitigation bank, but only in circumstances where it has been approved under the Interagency Federal Mitigation Banks Guidelines.

General conditions of the NWPs are in the Federal Register notice announcing the modification of this NWP. Notification requirements, additional conditions, limitations, and restrictions are in 33 CFR Part 330.

2. STATUTORY AUTHORITY:

- (a) Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403)
- (b) Section 404 of the Clean Water Act (33 U.S.C. 1344)

3. COMPLIANCE WITH RELATED LAWS (33 CFR 320.3):

(a) General:

NWPs are a type of general permit designed to authorize certain activities that have minimal adverse effects on the aquatic environment and generally comply with the related laws cited in 33 CFR 320.3. Activities that result in more than minimal adverse effects on the aquatic environment, individually or cumulatively, cannot be authorized by NWPs. Individual review of each activity authorized by an NWP will not normally be performed, except when preconstruction notification to the Corps is required or when an applicant requests verification that an activity complies with an NWP. Potential adverse impacts and compliance with the laws cited in 33 CFR 320.3 are controlled by the terms and conditions of each NWP, regional and case-specific conditions, and the review process that is undertaken prior to the issuance or modification of NWPs.

The evaluation of this NWP, and related documentation, considers compliance with

each of the following laws, where applicable: Sections 401, 402, and 404 of the Clean Water Act; Section 307(c) of the Coastal Zone Management Act of 1972, as amended; Section 302 of the Marine Protection, Research and Sanctuaries Act of 1972, as amended; the National Environmental Policy Act of 1969; the Fish and Wildlife Act of 1956; the Migratory Marine Game-Fish Act; the Fish and Wildlife Coordination Act, the Federal Power Act of 1920, as amended; the National Historic Preservation Act of 1966; the Interstate Land Sales Full Disclosure Act; the Endangered Species Act; the Deepwater Port Act of 1974; the Marine Mammal Protection Act of 1972; Section 7(a) of the Wild and Scenic Rivers Act; the Ocean Thermal Energy Act of 1980; the National Fishing Enhancement Act of 1984; and the Magnuson-Stevens Fishery and Conservation and Management Act. In addition, compliance of the NWP with other Federal requirements, such as Executive Orders and Federal regulations addressing issues such as floodplains, essential fish habitat, and critical resource waters is considered.

(b) Terms and Conditions:

Many NWPs have notification requirements that trigger case-by-case review of certain activities. Two NWP general conditions require case-by-case review of all activities that may adversely affect Federally-listed endangered or threatened species or historic properties (i.e., General Conditions 11 and 12). General Condition 7 restricts the use of NWPs for activities that are located in Federally-designated wild and scenic rivers. None of the NWPs authorize artificial reefs. General Condition 15 prohibits the use of an NWP with other NWPs, except when the acreage loss of waters of the United States does not exceed the highest specified acreage limit of the NWPs used to authorize the single and complete project.

In some cases, activities authorized by an NWP may require other Federal, state, or local authorizations. Examples of such cases include, but are not limited to: activities that are in marine sanctuaries or affect marine sanctuaries or marine mammals; the ownership, construction, location, and operation of ocean thermal conversion facilities or deep water ports beyond the territorial seas; activities that result in discharges of dredged or fill material into waters of the United States and require Section 401 water quality certification; or activities in a state operating under a coastal zone management program approved by the Secretary of Commerce under the Coastal Zone Management Act. In such cases, a provision of the NWPs states that an NWP does not obviate the need to obtain other authorizations required by law. [33 CFR 330.4(b)(2)]

Additional safeguards include provisions that allow the Chief of Engineers, division engineers, and/or district engineers to: assert discretionary authority and require an individual permit for a specific activity; modify NWPs for specific activities by adding special conditions on a case-by-case basis; add conditions on a regional or nationwide basis to certain NWPs; or take action to suspend or revoke an NWP or NWP

authorization for activities within a region or state. Regional conditions are imposed to protect important regional concerns and resources. [33 CFR 330.4(e) and 330.5]

(c) Review Process:

The analyses in this document and the coordination that was undertaken prior to the modification of the NWP fulfill the requirements of the National Environmental Policy Act (NEPA), the Fish and Wildlife Coordination Act, and other acts promulgated to protect the quality of the environment.

All NWPs that authorize activities which may result in discharges into waters of the United States require Section 401 water quality certification. NWPs that authorize activities within, or affecting land or water uses within a state that has a Federally-approved coastal zone management program, must also be certified as consistent with the state's program. The procedures to ensure that the NWPs comply with these laws are described in 33 CFR 330.4(c) and (d), respectively.

(d) Public Comment and Response:

For a summary of the public comments received in response to the July 21, 1999, Federal Register notice, refer to the preamble in the Federal Register notice announcing the modification of this NWP. The substantive comments received in response to the July 21, 1999, Federal Register notice were used to improve the NWP by changing NWP terms and limits, notification requirements, and/or NWP general conditions, as necessary.

4. INDIVIDUAL AND CUMULATIVE IMPACTS:

(a) General Evaluation Criteria:

This document contains a general assessment of the foreseeable effects of the individual activities authorized by this NWP, the anticipated cumulative effects of those activities, and the potential future losses of waters of the United States that are estimated to occur until the expiration date of the NWP. In the assessment of these individual and cumulative effects, the terms and limits of the NWP, notification requirements, and the standard NWP general conditions are considered. The supplementary documentation provided by division engineers will address how regional conditions affect the individual and cumulative effects of the NWP.

The following evaluation comprises the NEPA analysis, the public interest review specified in 33 CFR 320.4(a)(1) and (2), and the impact analysis specified in Subparts C through F of the 404(b)(1) Guidelines (40 CFR Part 230).

The issuance or modification of an NWP is based on a general assessment of the

effects on public interest and environmental factors that are likely to occur as a result of using this NWP to authorize activities in waters of the United States. As such, this assessment must be speculative or predictive in general terms. Since NWPs authorize activities across the nation, projects eligible for NWP authorization may be constructed in a wide variety of environmental settings. Therefore, it is difficult to predict all of the indirect impacts that may be associated with each activity authorized by an NWP. For example, the NWP that authorizes 25 cubic yard discharges of dredged or fill material into waters of the United States may be used to fulfill a variety of project purposes. Indication that a factor is not relevant to a particular NWP does not necessarily mean that the NWP would never have an effect on that factor, but that it is a factor not readily identified with the authorized activity. Factors may be relevant, but the adverse effects on the aquatic environment are negligible, such as the impacts of a boat ramp on water level fluctuations or flood hazards. Only the reasonably foreseeable direct or indirect effects are included in the environmental assessment of this NWP. Division and district engineers will impose, as necessary, additional conditions on the NWP authorization or exercise discretionary authority to address locally important factors or to ensure that the authorized activity results in no more than minimal individual and cumulative adverse effects on the aquatic environment. In any case, adverse effects will be controlled by the terms, conditions, and additional provisions of the NWP. For example, Section 7 consultation will be required for activities that may affect endangered species.

(b) NEPA Alternatives:

This evaluation includes an analysis of alternatives based on the requirements of NEPA, which requires a more expansive review than the Clean Water Act Section 404(b)(1) Guidelines. The alternatives discussed below are based on an analysis of the potential environmental impacts and impacts to the Corps, Federal and state resource agencies, general public, and prospective permittees. Since the consideration of off-site alternatives under Section 404(b)(1) does not apply to specific projects authorized by general permits, the alternatives analysis discussed below consists of a general NEPA alternatives analysis for the NWP.

(i) No Action Alternative (no Nationwide Permit):

The no action alternative would not achieve one of the goals of the Corps Nationwide Permit program, which is to reduce the regulatory burden on applicants for activities that result in minimal adverse effects on the aquatic environment, individually or cumulatively. The no action alternative would also reduce the Corps ability to pursue the current level of review for other activities that have greater adverse effects on the aquatic environment, including activities that require individual permits as a result of the Corps exercising its discretionary authority under the NWP program. The no action alternative would also reduce the Corps ability to conduct compliance actions.

If this NWP is not available, substantial additional resources would be required for the Corps to evaluate these minor activities through the individual permit process, and for the public and Federal and state resource agencies to review and comment on the large number of public notices for these activities. In a considerable majority of cases, when the Corps publishes public notices for proposed activities that result in minimal adverse effects on the aquatic environment, the Corps typically does not receive responses to these public notices from either the public or Federal and state resource agencies. Another important benefit of the NWP program that would not be achieved through the no action alternative is the incentive for project proponents to design their projects so that those activities meet the terms and conditions of an NWP. The Corps believes the NWPs have significantly reduced adverse effects to the aquatic environment because most applicants modify their projects to comply with the NWPs and avoid the delays and costs typically associated with the individual permit process.

In the absence of this NWP, Department of the Army (DA) authorization in the form of another general permit (i.e., regional or programmatic general permits, where available) or individual permits would be required. Corps district offices may develop regional general permits if an NWP is not available, but this is an impractical and inefficient method for activities with minimal individual or cumulative adverse effects on the aquatic environment that are conducted across the Nation. Not all districts would develop these regional general permits for a variety of reasons. The regulated public, especially those companies that conduct work in more than one Corps district, would be adversely affected by the widespread use of regional general permits because of the greater potential for lack of consistency and predictability in the authorization of similar activities with minimal adverse effects on the aquatic environment. These companies would incur greater costs in their efforts to comply with different regional general permit requirements between Corps districts. Nevertheless, in some states Corps districts have issued programmatic general permits to take the place of this and other NWPs. However, this approach only works in states with regulatory programs comparable to the Corps Regulatory Program.

(ii) National Modification Alternatives:

Since the Corps Nationwide Permit program began in 1977, the Corps has continuously strived to develop NWPs that authorize activities that result only in minimal adverse effects on the aquatic environment, individually or cumulatively. Every five years the Corps reevaluates the NWPs during the reissuance process, and may modify an NWP to address concerns for the aquatic environment. Utilizing collected data and institutional knowledge concerning activities authorized by the Corps regulatory program, the Corps constantly reevaluates the potential impacts of activities authorized by NWPs. The Corps also uses substantive public comments on proposed NWPs to assess the expected impacts. This NWP was developed to authorize activities in waters of the United States associated with the restoration of former waters, the enhancement of degraded tidal and non-tidal wetlands and riparian

areas, the creation of tidal and non-tidal wetland and riparian areas, and the restoration and enhancement of non-tidal streams and non-tidal open water areas that have minimal adverse effects on the aquatic environment. In response to the July 21, 1999, Federal Register notice, one commenter suggested a 2 acre limit for this NWP and several commenters recommended imposing a 250 linear foot limit for stream bed impacts. The Corps determined that there should be no acreage or linear limits for this NWP because the activities authorized by this NWP benefit the aquatic environment. The Corps has considered alternative applicable waters for this NWP, as well as modifying or adding NWP general conditions, as discussed in the preamble of the Federal Register notice announcing the modification of this NWP.

Notification is required for activities on any public or private land that do not comply with paragraphs (a)(1), (a)(2), or (a)(3) of this NWP. The notification process allows district engineers to identify proposed activities that will result in more than minimal adverse effects on the aquatic environment and exercise discretionary authority to require an individual permit.

The Corps also considered which types of waters should be included in this NWP. In the July 21, 1999, Federal Register notice, the Corps proposed to add the restoration and enhancement of non-tidal streams and open waters and the restoration of tidal waters to the activities authorized by this NWP. The comments addressing the applicable waters for this NWP are discussed in the preamble to the Federal Register notice announcing the modification of this NWP. One commenter said that the NWP should authorize the restoration and enhancement of tidal streams and wetlands. The modification of this NWP authorizes the restoration and enhancement of tidal wetlands. However, the restoration of tidal streams could result in more than minimal adverse effects on the aquatic environment and therefore these activities are not authorized by this NWP. Division and district engineers can restrict or prohibit the use of this NWP in high value waters either through regional conditioning or assertion of discretionary authority.

The Corps has also considered modifying existing NWP general conditions and issuing new NWP general conditions. These general conditions provide additional protection for the aquatic environment by ensuring that the activities authorized by NWPs result in minimal adverse effects on the aquatic environment, individually or cumulatively. For example, General Condition 19 requires the permittee to avoid and minimize impacts to waters of the United States on-site to the extent practicable. General Condition 25 requires notification to the District Engineer for NWP 27 activities in designated critical resource waters, such as NOAA-designated marine sanctuaries, National Estuarine Research Reserves, coral reefs, state natural heritage sites, and outstanding national resource waters officially designated by the state where those waters are located. District engineers can designate additional critical resource waters after public notice and opportunity for comment.

(iii) Regional Modification Alternatives:

An important aspect for the new and modified NWP is the increased emphasis on regional conditions to address differences in aquatic resource functions and values across the nation. All Corps divisions and districts are expected to add regional conditions to the new and modified NWP to enhance protection of the aquatic environment and address local concerns. Division engineers can regionally condition this NWP to restrict or prohibit discharges into certain high value waters.

Corps divisions and districts also monitor and analyze the cumulative adverse effects of the NWP on a watershed basis, and if warranted, further restrict or prohibit the use of the NWP to ensure that the NWP do not authorize activities that result in more than minimal adverse effects on the aquatic environment. The activities authorized by this NWP are expected to offset cumulative adverse effects to the aquatic environment in the watershed. To the maximum extent practicable, division and district engineers will use regulatory databases and institutional knowledge about the typical adverse effects of activities authorized by NWP, as well as substantive public comments, to assess the individual and cumulative adverse effects on the aquatic environment resulting from regulated activities. When conducting this assessment, division and district engineers can only consider those activities regulated by the Corps under Section 10 of the Rivers and Harbors Act, Section 404 of the Clean Water Act, and Section 103 of the Marine Protection, Research, and Sanctuaries Act of 1972. Adverse impacts resulting from activities outside of the Corps scope of analysis, such as the construction or expansion of upland developments, cannot be considered in the Corps analysis of cumulative adverse effects on the aquatic environment.

(iv) Case-specific On-site Alternatives:

Although the terms and conditions for this NWP have been established at the national level to authorize most activities that have minimal adverse effects on the aquatic environment, division and district engineers have the authority to impose case-specific special conditions on an NWP authorization to ensure that the authorized work will result in minimal adverse effects.

General Condition 19 requires the permittee to minimize and avoid impacts to waters of the United States on-site to the maximum extent practicable. Off-site alternatives cannot be considered for activities authorized by NWP. During the evaluation of a preconstruction notification, the District Engineer may determine that additional avoidance and minimization is practicable. For example, the NWP authorization can be conditioned to prohibit the permittee from conducting the work during specific times of the year to protect spawning fish and shellfish. If the proposed work will result in more than minimal adverse effects on the aquatic environment, then the District Engineer will exercise discretionary authority and require an individual permit.

Discretionary authority can be asserted where there are concerns for the aquatic environment, including high value aquatic habitats. The individual permit review process requires a project-specific alternatives analysis, including the consideration of off-site alternatives, and a public interest review.

(c) Impact Analysis

(i) General:

This NWP authorizes activities in waters of the United States associated with the restoration of former waters, the enhancement of degraded tidal and non-tidal wetlands and riparian areas, the creation of tidal and non-tidal wetland and riparian areas, and the restoration and enhancement of non-tidal streams and non-tidal open water areas that have minimal adverse effects on the aquatic environment. There is no acreage limit for this NWP.

Notification is required for activities on any public or private land that do not comply with paragraphs (a)(1), (a)(2), or (a)(3) of this NWP. The notification requirement allows district engineers to review certain proposed activities on a case-by-case basis to ensure that the adverse effects of those activities on the aquatic environment are minimal. If the District Engineer determines that the adverse effects of a particular project are more than minimal after considering mitigation, then discretionary authority will be asserted and the applicant will be notified that another form of DA authorization, such as a regional general permit or individual permit, is required (see 33 CFR 330.4(e) and 330.5).

Additional conditions can be placed on proposed activities on a regional or case-by-case basis to ensure that the work has minimal adverse effects on the aquatic environment. Regional conditioning of this NWP will be used to account for differences in aquatic resource functions and values across the country, ensure that the NWP authorizes only those activities with minimal individual or cumulative adverse effects on the aquatic environment, and allow each Corps district to prioritize its workload based on where its efforts will best serve to protect the aquatic environment. Regional conditions can prohibit the use of an NWP in certain waters (e.g., high value waters or specific types of wetlands or waters) or require notification for all work in certain watersheds or types of waters. Specific NWPs can also be revoked on a geographic or watershed basis where the adverse effects resulting from the use of those NWPs are more than minimal.

In high value waters, division and district engineers can: 1) prohibit the use of the NWP in those waters and require an individual permit or regional general permit; 2) add an acreage limit to the NWP; 3) require notification for all activities authorized by the NWP; 4) add regional conditions to the NWP to ensure that the adverse environmental effects are minimal; or 5) for those activities that require notification,

add special conditions to NWP authorizations to ensure that the adverse effects on the aquatic environment are minimal. NWPs can authorize activities in high value waters as long as the individual and cumulative adverse effects on the aquatic environment are minimal.

The construction and use of fills for temporary access for construction may be authorized by NWP 33 or regional general permits issued by division or district engineers. The related work must meet the terms and conditions of the specified permit(s). If the discharge is dependent on portions of a larger project that require an individual permit, this NWP will not apply. [See 33 CFR 330.6(c) and (d)]

(ii) Public interest review factors (33 CFR 320.4(a)(1)):

For each of the 20 public interest review factors, the extent of the Corps consideration of expected impacts resulting from the use of this NWP is discussed, as well as the reasonably foreseeable cumulative adverse effects that are expected to occur. The Corps decision process involves consideration of the benefits and detriments that may result from the activities authorized by this NWP.

(a) Conservation: The activities authorized by this NWP will improve the natural resource characteristics of the project area through the restoration, enhancement, and creation of aquatic habitats.

(b) Economics: The activities authorized by this NWP will benefit certain segments of the local economy, especially recreational activities that depend on large populations of fish and wildlife. Stream and wetland restoration activities will have positive impacts on the local economy. During construction, these activities will generate jobs and revenue for local contractors as well as revenue to building supply companies that sell construction materials. Other facilities associated with these types of activities, such as nature preserves, parks, hunting areas, fishing areas, and hiking trails will provide employment opportunities for the operation and maintenance of these facilities.

(c) Aesthetics: The activities authorized by this NWP may alter the visual character of some waters of the United States, but usually these alterations will be beneficial. The extent and perception of these changes will vary, depending on the size and configuration of the authorized activity, the nature of the surrounding area, and the public uses of the area. Air quality and noise levels are unlikely to be adversely affected by stream and wetland restoration and enhancement, except during construction.

(d) General environmental concerns: Activities authorized by this NWP will not adversely affect general environmental concerns, such as water, air, noise, and land pollution, except during construction. The authorized work will improve the physical,

chemical, and biological characteristics of the aquatic environment. Adverse effects to the chemical composition of the aquatic environment will be controlled by General Condition 18, which states that the material used for construction must be free from toxic pollutants in toxic amounts. Specific environmental concerns are addressed in other sections of this document.

(e) Wetlands: Discharges of dredged or fill material into waters of the United States for stream and wetland restoration and enhancement activities may result in the destruction of wetlands. Some non-tidal wetlands may be destroyed as part of a stream restoration or enhancement activity. Non-tidal wetlands may also be destroyed by conversion to another aquatic habitat type, but the same type of wetland (e.g., emergent, scrub-shrub) must be created elsewhere on the project site. The conversion of tidal wetlands is not authorized by this NWP. Some wetlands may be temporarily impacted by the work when used for temporary staging areas and access roads. These wetlands will be restored, but the plant community may be different, especially if the site was originally forested.

Wetlands provide habitat, including foraging, nesting, spawning, rearing, and resting sites for aquatic and terrestrial species. The destruction of wetlands may alter natural drainage patterns. Wetlands reduce erosion by stabilizing the substrate. Wetlands also act as storage areas for stormwater and flood waters. Wetlands may act as groundwater discharge or recharge areas. The loss of wetland vegetation will adversely affect water quality because these plants trap sediments, pollutants, and nutrients and transform chemical compounds. Wetland vegetation also provides habitat for microorganisms that remove nutrients and pollutants from water. Wetlands, through the accumulation of organic matter, act as sinks for some nutrients and other chemical compounds, reducing the amounts of these substances in the water.

General Condition 25 requires notification to the District Engineer to ensure that the use of this NWP in designated critical resource waters, which may include high value wetlands, will not result in more than minimal adverse effects to the aquatic environment. Division engineers can regionally condition this NWP to restrict or prohibit its use in high value non-tidal wetlands. District engineers will also exercise discretionary authority to require an individual permit if the affected wetlands are high value and the work will result in more than minimal adverse effects on the aquatic environment. District engineers can also add case-specific special conditions to the NWP authorization to reduce impacts to wetlands.

(f) Historic properties: General Condition 12 states that the NWPs cannot authorize activities that affect historic properties listed, or eligible for listing in, the National Register of Historic Places, until the District Engineer has complied with 33 CFR Part 325, Appendix C. The provisions of Appendix C ensure that activities authorized by NWPs comply with the National Historic Preservation Act.

(g) Fish and wildlife values: This NWP authorizes activities that restore, enhance, or create aquatic habitat for many species of fish and wildlife. Activities authorized by this NWP may alter the habitat characteristics of streams and wetlands, favoring certain species at the expense of other species. Wetland and riparian vegetation provides food and habitat for many species, including foraging areas, resting areas, corridors for wildlife movement, and nesting and breeding grounds. Open waters provide habitat for fish and other aquatic organisms. Fish and other motile animals will avoid the project site during construction. Woody riparian vegetation shades streams, which reduces water temperature fluctuations and provides habitat for fish and other aquatic animals. Riparian vegetation provides organic matter that is consumed by fish and aquatic invertebrates. Woody riparian vegetation creates habitat diversity in streams when trees and large shrubs fall into the channel, forming snags that provide habitat and shade for fish. The morphology of a stream channel may be altered by activities authorized by this NWP, which can affect fish populations, but such changes should improve the quality of aquatic habitat. The project proponent may remove invasive non-native plant species to improve the quality of fish and wildlife habitat. If the site is to be planted by the project proponent, only native species should be planted. For those projects that require notification, the District Engineer will have an opportunity to review the proposed work and assess potential impacts on fish and wildlife values to ensure that the authorized activity results in minimal adverse effects on the aquatic environment.

Pursuant to Section 305(b)(2) of the Magnuson-Stevens Fishery and Conservation Management Act, the Corps entered into programmatic Essential Fish Habitat consultation with the NMFS. As discussed elsewhere in this document (i.e., Section 4(c)(ii)(g), Section 4(c)(iii)(h), and Section 4(c)(iii)(l)), the NWPs contain provisions that will ensure that impacts to Essential Fish Habitat are minimal, individually or cumulatively. Division and district engineers can impose regional and special conditions to ensure that activities authorized by this NWP will result in minimal adverse effects on Essential Fish Habitat.

General Condition 4 will reduce the adverse effects to fish and other aquatic species by prohibiting activities that substantially disrupt the movement of indigenous aquatic species, unless the primary purpose of the activity is to impound water. Compliance with General Conditions 17 and 20 will ensure that the authorized work has minimal adverse effects on shellfish beds and spawning areas, respectively. The authorized work cannot have more than minimal adverse effects on breeding areas for migratory waterfowl, due to the requirements of General Condition 23.

(h) Flood hazards: The activities authorized by this NWP are unlikely to adversely affect the flood-holding capacity of 100-year floodplains. Compliance with General Condition 21 will also reduce flood hazards. This general condition requires the permittee to maintain preconstruction surface flow rates from the site and avoid

relocating or redirecting water to the maximum extent practicable.

(i) Floodplain values: Activities authorized by NWP 27 may affect floodplain values by changing plant communities, substrate, and elevations. In most cases, these changes will be beneficial to the aquatic environment. The flood-holding capacity of the floodplain is unlikely to be adversely affected by the activities authorized by this NWP. Some of the activities authorized by this NWP may be designed to increase the frequency of flooding to improve local water quality and benefit certain organisms that depend on flooding patterns as part of their life cycles. The fish and wildlife habitat values of floodplains may be adversely affected by activities authorized by this NWP, by modifying or eliminating areas used for nesting, foraging, resting, and reproduction by certain species of wildlife. The water quality functions of floodplains may also be altered by these activities. Modification of the floodplain may also affect other hydrological processes, such as groundwater recharge.

The stream and wetland restoration activities authorized by this NWP will have only minor adverse effects on floodplain values. General Condition 19 requires on-site avoidance and minimization of impacts to waters of the United States to the maximum extent practicable, which will reduce losses of floodplain values. The mitigation requirements of this general condition will ensure that the adverse effects of these activities on floodplain values are minimal. Compliance with General Condition 21 will ensure that activities on floodplains will not cause more than minimal adverse effects on floodplain values, especially flood storage and conveyance.

(j) Land use: Activities authorized by this NWP will retain the natural land use of the project area. Conservation easements, deed restrictions, or other agreements to maintain the aquatic habitats on the property, including vegetated buffers, may be required as a condition of this NWP. These restrictions may be for a specific period of time or in perpetuity. Since the primary responsibility for land use decisions is held by state, local, and Tribal governments, the Corps scope of analysis is limited to significant issues of overriding national importance, such as navigation and water quality (see 33 CFR 320.4(j)(2)).

(k) Navigation: Activities authorized by this NWP will not adversely affect navigation, because these activities must comply with General Condition 1. The notification requirements for NWP 27 activities on public and private land will allow district engineers to review the proposed work and assess the potential adverse effects on navigation. If there are navigation concerns, then the District Engineer can exercise discretionary authority and require an individual permit for the proposed work.

(l) Shore erosion and accretion: The activities authorized by this NWP may affect shore erosion and accretion processes, if they are constructed in coastal areas. These activities are likely to have minor adverse effects on shore erosion and accretion. The

restoration, enhancement, or creation of wetlands in coastal areas will stabilize sediments and improve water quality. Some bank protection may be necessary to protect the wetlands that are restored, enhanced, or created along the shore.

(m) Recreation: Activities authorized by this NWP may change the recreational uses of the area. Certain recreational activities, such as bird watching, hunting, and fishing may be improved by providing habitat for species that attract bird watchers, hunters, and fishermen. Some wetland or stream restoration activities may eliminate certain recreational uses of the area, especially if the landowner restricts access to the area. Overall, the activities authorized by NWP 27 will benefit certain recreational uses of the area.

(n) Water supply and conservation: Activities authorized by this NWP may affect both surface water and groundwater supplies. Surface water supplies may be increased through the construction of impoundments. Groundwater recharge may be improved by wetland restoration, enhancement, or creation activities. The activities authorized by this NWP are likely to enhance water supplies by improving local water quality. General Condition 16 prohibits discharges in the vicinity of public water supply intakes.

(o) Water quality: The activities authorized by this NWP will improve water quality. These activities will increase the quantity and quality of wetlands, riparian areas, and streams in the watershed. The establishment and maintenance of wetland and riparian vegetation will improve water quality because these plants trap sediments, pollutants, and nutrients and transform chemical compounds. Wetland and riparian vegetation also provides habitat for microorganisms that remove nutrients and pollutants from water. Wetlands, through the accumulation of organic matter, act as sinks for some nutrients and other chemical compounds, reducing the amounts of these substances in the water column. Wetlands and riparian areas also decrease the velocity of flood waters, removing suspended sediments from the water column and reducing turbidity. Riparian vegetation also serves an important role in the water quality of streams by shading the water from the intense heat of the sun.

During construction, small amounts of oil and grease from construction equipment may be discharged into the waterway. Because most of the construction will occur during a relatively short period of time, the frequency and concentration of these discharges are not expected to have more than minimal adverse effects on overall water quality. This NWP requires Section 401 water quality certification, since it authorizes discharges of dredged or fill material into waters of the United States. Most water quality concerns are addressed by the state or Tribal Section 401 agency.

(p) Energy needs: During construction, the activities authorized by this NWP will temporarily increase energy consumption in the area, but adverse effects to energy needs will be negligible.

(q) Safety: The activities authorized by this NWP will be subject to Federal, state, and local safety laws and regulations. Therefore, this NWP will not adversely affect the safety of the project area.

(r) Food and fiber production: Activities authorized by this NWP may adversely affect food and fiber production, especially where wetland restoration, enhancement, or creation projects are conducted on land used for agricultural production. Stream restoration and enhancement activities may also decrease the amount of farmland, (e.g., if a riparian zone is established along a stream that runs through cropland). The loss of farmland is outside of the Corps scope of analysis. Some wetland and stream restoration activities may increase populations of economically important game species, which provide food for some citizens.

(s) Mineral needs: Activities authorized by this NWP may increase demand for aggregates and stone, which may be used to construct the wetland or stream restoration or enhancement project. The activities authorized by this NWP will have negligible adverse effects on the demand for other building materials, such as steel, aluminum, and copper, which are made from mineral ores.

(t) Considerations of property ownership: The NWP complies with 33 CFR 320.4(g), which states that an inherent aspect of property ownership is a right to reasonable private use. The NWP provides expedited DA authorization for stream and wetland restoration activities, provided the activity complies with the terms and conditions of the NWP and results in minimal adverse effects on the aquatic environment.

(iii) 404(b)(1) Guidelines Impact Analysis (Subparts C through F):

(a) Substrate: Discharges of dredged or fill material into waters of the United States will result in minor changes to the substrate of those waters, since the NWP authorizes activities that restore, enhance, or create aquatic habitats. There will be beneficial changes to the physical, chemical, and biological characteristics of the substrate. The original substrate may be removed and replaced with material that will improve the growth and reproduction of vegetation or improve the aquatic habitat characteristics of the area. Temporary fills may be placed upon the substrate, but must be removed upon completion of the work (see General Condition 24). Some erosion may occur during construction, but General Condition 3 requires the use of appropriate measures to control soil erosion and sediment.

(b) Suspended particulates/turbidity: Depending on the method of construction, soil erosion and sediment control measures, equipment, composition of the bottom substrate, and wind and current conditions during construction, fill material placed in open waters will temporarily increase water turbidity. Particulates will be resuspended in the water column during removal of temporary fills. The turbidity

plume will normally be limited to the immediate vicinity of the disturbance and should dissipate shortly after each phase of the construction activity. General Condition 3 requires the permittee to stabilize exposed soils and other fills, which will reduce turbidity. In many localities, sediment and erosion control plans are required to minimize the entry of soil into the aquatic environment. NWP activities cannot create turbidity plumes that smother important spawning areas downstream (see General Condition 20).

(c) Water: The activities authorized by this NWP can affect some characteristics of water, such as water clarity, chemical content, dissolved gas concentrations, pH, and temperature, but these effects are likely to be positive, with benefits to the local aquatic environment. The chemical and physical characteristics of the waterbody may be changed by aquatic habitat restoration, enhancement, or creation activities, but such changes should be improvements or negligible adverse effects. Changes in water quality can affect the species and quantities of organisms inhabiting the aquatic area. Water quality certification is required for activities authorized by this NWP, which will ensure that the work does not violate applicable water quality standards. The establishment of riparian vegetation will help improve or maintain water quality, by removing nutrients, moderating water temperature changes, and trapping sediments.

(d) Current patterns and water circulation: Activities authorized by this NWP may adversely affect the movement of water in the aquatic environment. For those projects that require notification, the District Engineer will have an opportunity to review the proposed work and assess potential impacts on current patterns and water circulation. The installation of water control structures and habitat features may affect current patterns and water circulation, but the adverse effects are likely to be minor. General Condition 21 requires the authorized activity to be designed to withstand expected high flows and maintain preconstruction surface flow rates from the site to the maximum extent practicable.

(e) Normal water level fluctuations: The activities authorized by this NWP will have negligible adverse effects on normal water level fluctuations. Some activities may involve the construction of water control structures, which will alter the water level fluctuations of non-tidal waters. This NWP does not authorize the conversion of tidal waters to other aquatic uses, which will prevent adverse effects to tidal fluctuations in the area. General Condition 21 requires the permittee to maintain preconstruction surface flow rates from the site to the maximum extent practicable.

(f) Salinity gradients: The activities authorized by this NWP are unlikely to adversely affect salinity gradients, since the NWP authorizes the restoration, enhancement, or creation of tidal wetlands. These activities will not cause changes to salinity gradients.

(g) Threatened and endangered species: The Corps believes that the procedures currently in place result in proper coordination under Section 7 of the Endangered

Species Act (ESA) and ensure that activities authorized by this NWP will not jeopardize the continued existence or any listed threatened and endangered species or result in the destruction or adverse modification of critical habitat. The Corps also believes that current local procedures in Corps districts are effective in ensuring compliance with ESA.

Each activity authorized by an NWP is subject to General Condition 11, which states that "no activity is authorized under any NWP which is likely to jeopardize the continued existence of a threatened or endangered species or a species proposed for such designation, as identified under the Federal Endangered Species Act, or which is likely to modify the critical habitat of such species." In addition, General Condition 11 explicitly states that the NWP does not authorize the taking of threatened or endangered species, which will ensure that permittees do not mistake the NWP authorization as a Federal authorization to take threatened or endangered species. General Condition 11 also requires the applicant to notify the District Engineer if there are endangered or threatened species in the vicinity of the project.

Under the current Corps regulations (33 CFR 325.2(b)(5)), the District Engineer must review all permit applications for potential impacts on threatened and endangered species or critical habitat. For the NWP program, this review occurs when the District Engineer evaluates the preconstruction notification or request for verification.

Based on the evaluation of all available information, the District Engineer will initiate consultation with the FWS or National Marine Fisheries Service (NMFS), as appropriate, if he or she determines that the regulated activity may affect any threatened and endangered species or critical habitat. Consultation may occur during the NWP authorization process or the district engineer may exercise discretionary authority to require an individual permit for the proposed activity and initiate consultation through the individual permit process. If ESA consultation is conducted during the NWP authorization process without the District Engineer exercising discretionary authority, then the applicant will be notified that he or she cannot proceed with the proposed activity until ESA consultation is complete. If the District Engineer determines that the activity will have no effect on any threatened and endangered species or critical habitat, then the District Engineer will notify the applicant that he or she may proceed under the NWP authorization.

Corps districts have, in most cases, established informal or formal procedures with local offices of the FWS and NMFS, through which the agencies share information regarding threatened and endangered species and their critical habitat. This information helps district engineers determine if a proposed activity will affect endangered species or their critical habitat and, if necessary, initiate consultation. Corps districts may utilize maps or databases that identify locations of populations of threatened and endangered species and their critical habitat. Regional conditions are added to NWPs, where necessary, to require notification for activities that occur in known locations of threatened and endangered species or critical habitat. For

activities that require agency coordination during the notification process, the FWS and NMFS will review the proposed work for potential impacts to threatened and endangered species and their critical habitat. Any information provided by local maps and databases and any comments received during the notification process will be used by the district engineer to make a "may affect" or "not likely to adversely affect" decision. General Condition 25 requires notification to the District Engineer for all discharges into waters of the United States in designated critical habitat of Federally-listed threatened or endangered species, which will allow the District Engineer to review the proposed activity and determine if it complies with General Condition 11.

Based on the safeguards discussed above, especially General Condition 11, the Corps has determined that the activities authorized by this NWP will not jeopardize the continued existence of any listed threatened or endangered species or result in the destruction or adverse modification of designated critical habitat. Although the Corps continues to believe that these procedures ensure compliance with ESA, the Corps has taken some steps to provide further assurance. Corps district offices have met with local representatives of the FWS and NMFS to establish or modify existing procedures, where necessary, to ensure that the Corps has the latest information regarding the existence and location of any threatened or endangered species or their critical habitat. Corps districts can also establish, through local procedures or other means, additional safeguards that ensure compliance with ESA. Through formal consultation under Section 7 of the Endangered Species Act, or through other coordination with the FWS and/or the NMFS, as appropriate, the Corps will establish procedures to ensure that the NWP will not jeopardize any threatened and endangered species or result in the destruction or adverse modification of designated critical habitat. Such procedures will be included as regional conditions to the NWPs or as special conditions of an NWP authorization, if necessary.

(h) Fish, crustaceans, molluscs, and other aquatic organisms in the food web:

The activities authorized by this NWP will benefit most species of fish, crustaceans, molluscs, and other aquatic organisms in the food web. Some species may be adversely affected by changes in habitat characteristics that may occur as a result of activities authorized by this NWP. These activities will increase or improve the habitat for these species, which will increase populations of those organisms. For those projects that require notification, the District Engineer will review the proposed work and assess potential impacts on fish and other aquatic organisms and ensure that those impacts are minimal. Fish and other motile animals will avoid the project site during construction. Sessile or slow-moving animals in the path of discharges, equipment, and building materials will be destroyed. Some aquatic animals may be smothered by the placement of fill material. Motile animals will return to those areas that are temporarily impacted by the work and restored or allowed to revert back to preconstruction conditions. Benthic and sessile animals are expected to recolonize sites after construction. Activities that alter the riparian zone, especially floodplains,

may adversely affect populations of fish and other aquatic animals, by altering stream flow, flooding patterns, and surface and groundwater hydrology. The activities authorized by this NWP may favor certain riparian species at the detriment of other riparian species. Some species of fish spawn on floodplains, which could be prevented if the authorized work causes substantial adverse changes to floodplain habitat. The removal of invasive non-native plant species will benefit aquatic organisms in the food web.

Division and district engineers can place conditions on this NWP to prohibit discharges during important stages of the life cycles of certain aquatic organisms. Such time of year restrictions can prevent adverse effects to these aquatic organisms during reproduction and development periods. General Conditions 17 and 20 address protection of shellfish beds and spawning areas, respectively. General Condition 17 prohibits activities in areas of concentrated shellfish populations. General Condition 20 states that activities in spawning areas during spawning seasons must be avoided to the maximum extent practicable. In addition, General Condition 20 also prohibits activities that result in the physical destruction of important spawning areas. General Condition 21 requires the maintenance of preconstruction downstream flow conditions to the maximum extent practicable, which will help minimize adverse impacts to fish, shellfish, and other aquatic organisms in the food web.

(i) Other wildlife: Activities authorized by this NWP will benefit other wildlife associated with aquatic ecosystems, such as resident and transient mammals, birds, reptiles, and amphibians, through the restoration, creation, or enhancement of aquatic habitat, including breeding and nesting areas, escape cover, travel corridors, and preferred food sources. However, certain species may benefit from these changes while other species may be displaced by the destruction of specialized habitat. This NWP does not authorize activities that jeopardize the continued existence of Federally-listed endangered and threatened species or result in the destruction or adverse modification of critical habitat. General Condition 23 states that activities in breeding areas for migratory waterfowl must be avoided to the maximum extent practicable.

(j) Special aquatic sites: The potential impacts to specific special aquatic sites are discussed below:

(1) Sanctuaries and refuges: The activities authorized by this NWP will have minimal adverse effects on waters of the United States within sanctuaries or refuges designated by Federal or state laws or local ordinances. General Condition 25 requires notification to the District Engineer for proposed NWP 27 activities in NOAA-designated marine sanctuaries, National Estuarine Research Reserves, coral reefs, state natural heritage sites, and outstanding national resource waters officially designated by the state where those waters are located. For those sanctuaries and refuges not listed above, division

engineers can regionally condition the NWP to restrict or prohibit its use in those areas. District engineers will also exercise discretionary authority and require individual permits for projects that require notification if those activities will result in more than minimal adverse effects on the aquatic environment.

(2) Wetlands: The activities authorized by this NWP will have beneficial effects on wetlands. The quantity and quality of wetlands in a watershed will be improved by the activities authorized by this NWP. See paragraph (e) in Section 4(c)(ii), above, for a more detailed discussion of impacts to wetlands.

(3) Mud flats: The activities authorized by this NWP may result in the loss of mud flats if tidal wetlands are created or restored where mud flats are located. Such adverse effects are likely to be minor, and for those projects that require notification, the District Engineer will have an opportunity to review the proposed work and determine if the adverse effects on the aquatic environment are minimal.

(4) Vegetated shallows: The activities authorized by this NWP may affect vegetated shallows in non-tidal waters, if the project proponent wants to change aquatic habitat types in those areas. This NWP does not authorize the conversion of tidal waters to other aquatic uses. For those activities that require notification, the District Engineer will have an opportunity to review the proposed work and assess potential impacts on vegetated shallows and ensure that the adverse effects are minimal. Division engineers can also regionally condition this NWP to prohibit conversion of non-tidal vegetated shallows.

(5) Coral reefs: The activities authorized by this NWP will have minimal adverse effects on coral reefs, since the NWP does not authorize the conversion of tidal waters to other uses.

(6) Riffle and pool complexes: Stream restoration and enhancement activities authorized by this NWP may affect riffle and pool complexes, but the adverse effects will be minimal since stream restoration and enhancement activities improve habitat characteristics. For those activities that require notification, the District Engineer will have an opportunity to review the proposed work and assess potential impacts on riffle and pool complexes to determine if those activities will result in minimal adverse effects on the aquatic environment. If the riffle and pool complexes are high value and the work will result in more than minimal adverse effects on the aquatic environment, the District Engineer will exercise discretionary authority to require the project proponent to obtain an individual permit.

(k) Municipal and private water supplies: See paragraph (n) in Section 4(c)(ii), above, for a discussion of potential impacts to water supplies.

(l) Recreational and commercial fisheries, including Essential Fish Habitat: The activities authorized by this NWP may affect waters of the United States that act as habitat for populations of economically important fish and shellfish species, but the effects will be beneficial in most cases. For those projects that require notification, the District Engineer will have an opportunity to review the proposed work and assess potential impacts on recreational and commercial fisheries. Division and district engineers can condition this NWP to prohibit discharges during important life cycle stages, such as spawning or development periods, of economically valuable fish and shellfish. Compliance with General Conditions 17 and 20 will ensure that the authorized work does not adversely affect concentrated shellfish populations or important spawning areas.

Pursuant to Section 305(b)(2) of the Magnuson-Stevens Fishery and Conservation Management Act, the Corps entered into programmatic Essential Fish Habitat consultation with the NMFS. As discussed elsewhere in this document (i.e., Section 4(c)(ii)(g), Section 4(c)(iii)(h), and Section 4(c)(iii)(l)), the NWPs contain provisions that will ensure that impacts to Essential Fish Habitat are minimal, individually or cumulatively. Division and district engineers can impose regional and special conditions to ensure that activities authorized by this NWP will result in minimal adverse effects on Essential Fish Habitat.

(m) Water-related recreation: See paragraph (m) in Section 4(c)(ii) above.

(n) Aesthetics: See paragraph (c) in Section 4(c)(ii), above.

(o) Parks, national and historical monuments, national seashores, wilderness areas, research sites, and similar areas: In accordance with General Condition 25, notification is required for discharges in designated critical resource waters and adjacent wetlands, which may be located in parks, national and historical monuments, national seashores, wilderness areas, and research sites. This NWP can be used to authorize activities in parks, national and historical monuments, national seashores, wilderness areas, and research sites if the manager or caretaker wants to conduct work in waters of the United States and those activities result in minimal adverse effects on the aquatic environment. Division engineers can regionally condition the NWP to prohibit its use in designated areas, such as national wildlife refuges or wilderness areas.

(iv) Cumulative Impacts:

The cumulative impacts of an NWP generally do not depend on the number of times the permit is used on a national basis but on the number of times the NWP and other

DA permits are used within a specific geographic area, particularly a watershed. In a specific watershed, division or district engineers may determine that the cumulative adverse effects of the activities authorized by NWP are more than minimal. Division and district engineers will monitor and review geographic areas that may be subject to more than minimal cumulative adverse effects. Division and district engineers have the authority to require individual permits where the cumulative adverse effects are more than minimal, or add conditions to the NWP either on a case-by-case or regional basis to ensure that the cumulative adverse effects are minimal. When division or district engineers determine that a geographic area is subject to more than minimal cumulative adverse effects due to the use of the NWPs, they will use the revocation and modification procedure at 33 CFR 330.5. In reaching the final decision, they will compile information on the cumulative adverse effects and supplement this document.

Based on data from the past use of NWP 26 and surveys of Corps district offices, the Corps estimates that the modifications to this NWP will authorize approximately 130 additional activities per year, resulting in discharges into approximately 63 acres of wetlands and 195,000 linear feet of stream bed per year. For these activities, the Corps estimates that approximately 100 acres of compensatory mitigation will be required per year. For the reissuance of NWP 27 in 1996, the Corps estimated that this NWP would be used to authorize approximately 700 wetland and riparian restoration, enhancement, and creation activities per year on a national basis. Approximately 600 of those activities will have wetland impacts of approximately 1,300 acres with the Corps requiring approximately 2,600 acres of compensatory wetland mitigation. The demand for these types of activities could increase or decrease over the five-year duration of this NWP. Based on these estimates, approximately 3,800 NWP 27 activities would be authorized over a five year period until this NWP expires on June 5, 2005, resulting in discharges into approximately 6,650 acres of wetlands and 487,500 linear feet of stream bed impacts. To offset these impacts to waters of the United States, approximately 13,250 acres of compensatory mitigation would be required. The Corps expects that the convenience and time savings associated with the use of this NWP will encourage applicants to design their projects within the scope of the NWP rather than request individual permits for projects which could result in greater adverse impacts to the aquatic environment.

- (d) Additional Public Interest Review Factors (33 CFR 320.4(a)(2)):
- (i) Relative extent of the public and private need for the proposed structure or work:

This NWP authorizes activities in waters of the United States associated with the restoration of former waters, the enhancement of degraded tidal and non-tidal wetlands and riparian areas, the creation of tidal and non-tidal wetland and riparian areas, and the restoration and enhancement of non-tidal streams and non-tidal open water areas that have minimal adverse effects on the aquatic environment, individually and cumulatively. These activities improve environmental quality. The need for this

NWP is based upon the large number of these activities that occur annually, with minimal adverse effects on the aquatic environment.

- (ii) Where there are unresolved conflicts as to resource use, the practicability of using reasonable alternative locations and methods to accomplish the objective of the proposed structure or work:

Most situations in which there are unresolved conflicts concerning resource use arise when environmentally sensitive areas are involved (e.g., special aquatic sites, including wetlands) or where there are competing uses of a resource. The nature and scope of the activity, when planned and constructed in accordance with the terms and conditions of this NWP, reduce the likelihood of such conflict. In the event that there is a conflict, the NWP contains provisions that are capable of resolving the matter (see Sections 1 and 3 of this document).

General Condition 19 requires permittees to avoid and minimize discharges of dredged or fill material into waters of the United States to the maximum extent practicable on the project site. Consideration of off-site alternative locations is not required for activities that are authorized by general permits. General permits authorize activities that have minimal individual and cumulative adverse effects on the aquatic environment and overall public interest. District engineers will exercise discretionary authority and require an individual permit if the proposed work will result in more than minimal adverse environmental effects on the project site. The consideration of off-site alternatives can be required during the individual permit process.

- (iii) The extent and permanence of the beneficial and/or detrimental effects which the proposed structure or work is likely to have on the public and private uses to which the area is suited:

The nature and scope of the work authorized by the NWP will most likely restrict the extent of the beneficial and detrimental effects to the area immediately surrounding the stream or wetland restoration activity. Activities authorized by this NWP will have minimal adverse effects on the aquatic environment.

As previously stated, the terms, conditions, and provisions of the NWP were developed to ensure that individual and cumulative adverse environmental effects are minimal. Specifically, NWPs do not obviate the need for the permittee to obtain other Federal, state, or local authorizations required by law. The NWPs do not grant any property rights or exclusive privileges (see Section 3 of this document and 33 CFR 330.4(b) for further information). Additional conditions, limitations, restrictions, and provisions for discretionary authority, as well as the ability to add activity-specific or regional conditions to this NWP, will provide further safeguards to the aquatic environment and the overall public interest. There are also provisions to allow

suspension, modification, or revocation of the NWP. Refer to Sections 1 and 3 of this document for further information and procedures.

5. EVALUATION OF COMPLIANCE WITH THE GUIDELINES PROMULGATED UNDER SECTION 404(b)(1) OF THE CLEAN WATER ACT (40 CFR Part 230):

The 404(b)(1) compliance criteria for general permits are contained in 40 CFR 230.7.

(a) Evaluation Process (40 CFR 230.7(b)(1)):

(i) Alternatives (40 CFR 230.10(a)):

General Condition 19 requires permittees to avoid and minimize discharges of dredged or fill material into waters of the United States to the maximum extent practicable on the project site. The consideration of off-site alternatives is not directly applicable to general permits.

(ii) Prohibitions (40 CFR 230.10(b)):

This NWP authorizes discharges of dredged or fill material into waters of the United States, which require Section 401 water quality certification. Water quality certification requirements will be met in accordance with the procedures in 33 CFR 330.4(c).

No toxic discharges will be authorized by this NWP. General Condition 18 specifically states that the material must be free from toxic pollutants in toxic amounts.

This NWP does not authorize activities that jeopardize the continued existence of any listed threatened or endangered species or result in the destruction or adverse modification of critical habitat. Reviews of preconstruction notifications, regional conditions, and local operating procedures for endangered species will ensure compliance with the Endangered Species Act. Refer to General Condition 11 and to 33 CFR 330.4(f) for information and procedures.

This NWP will not authorize the violation of any requirement to protect any marine sanctuary. Refer to Section 3 of this document for further information.

(iii) Findings of Significant Degradation (40 CFR 230.10(c)):

Potential impact analysis (Subparts C through F):

The potential impact analysis specified in Subparts C through F is discussed in Section 4 of this document. Mitigation required by the District Engineer will ensure that the

adverse effects on the aquatic environment are minimal.

Evaluation and testing (Subpart G):

Because the terms and conditions of the NWP specify the types of discharges that are authorized, as well as those that are prohibited, individual evaluation and testing for the presence of contaminants will normally not be required. If a situation warrants, provisions of the NWP allow division or district engineers to further specify authorized or prohibited discharges and/or require testing.

Based upon Subparts B and G, after consideration of Subparts C through F, the discharges authorized by this NWP will not cause or contribute to significant degradation of waters of the United States.

(iv) Factual determinations (40 CFR 230.11):

The factual determinations required in 40 CFR 230.11 are discussed in Section 4 of this document.

(v) Appropriate and practicable steps to minimize potential adverse impacts (40 CFR 230.10(d)):

As demonstrated by the information in this document, as well as the terms, conditions, and provisions of this NWP, actions to minimize adverse effects (Subpart H) have been thoroughly considered and incorporated into the NWP. General Condition 19 requires permittees to avoid and minimize discharges of dredged or fill material into waters of the United States to the maximum extent practicable on the project site. Compensatory mitigation required by the District Engineer will ensure that the net adverse effects on the aquatic environment are minimal.

(b) Evaluation Process (40 CFR 230.7(b)(2)):

(i) Description of permitted activities:

As indicated by the text of this NWP in Section 1 of this document and the discussion of potential impacts in Section 4, the activities authorized by this NWP are sufficiently similar in nature and environmental impact to warrant authorization under a single general permit. Specifically, the purpose of the NWP is to authorize activities in waters of the United States associated with the restoration of former waters, the enhancement of degraded tidal and non-tidal wetlands and riparian areas, the creation of tidal and non-tidal wetland and riparian areas, and the restoration and enhancement of non-tidal streams and non-tidal open water areas that have minimal adverse effects on the aquatic environment. The nature and scope of the impacts are controlled by the terms and conditions of the NWP.

If a situation arises in which the activity requires further review, or is more appropriately reviewed under the individual permit process, provisions of the NWP allow division and/or district engineers to take such action.

(c) Cumulative effects (40 CFR 230.7(b)(3)):

The cumulative effects, including the number of activities likely to be authorized under this NWP, are discussed in Section 4 of this document. If a situation arises in which the proposed activity requires further review, or is more appropriately reviewed under the individual permit process, provisions of the NWPs allow division and/or district engineers to take such action.

6. Final Determinations:

(a) Finding of No Significant Impact:

Based on the information in this document, the Corps has determined that the issuance of this NWP will not have a significant impact on the quality of the human environment. Therefore, the preparation of an Environmental Impact Statement is not required.

(b) 404(b)(1) Compliance:

This NWP has been evaluated for compliance with the Section 404(b)(1) Guidelines, including Subparts C through G. Based on the information in this document, the Corps has determined that the discharges authorized by this NWP comply with the 404(b)(1) Guidelines, with the inclusion of appropriate and practicable conditions, including mitigation, necessary to minimize adverse effects on affected aquatic ecosystems. The activities authorized by this NWP will not result in significant degradation of the aquatic environment.

(c) Public Interest Determination:

In accordance with the requirements of 33 CFR 320.4, the Corps has determined, based on the information in this document, that the issuance of this NWP is not contrary to the public interest.

(d) Section 176(c) of the Clean Air Act General Conformity Rule Review:

This NWP has been analyzed for conformity applicability pursuant to regulations implementing Section 176(c) of the Clean Air Act. It has been determined that the activities authorized by this permit will not exceed de minimis levels of direct emissions of a criteria pollutant or its precursors and are exempted by 40 CFR 93.153.

Any later indirect emissions are generally not within the Corps continuing program responsibility and generally cannot be practicably controlled by the Corps. For these reasons, a conformity determination is not required for this NWP.

- (e) Public Hearing: A public hearing was held on August 19, 1998, in Washington, D.C. to solicit comments on the proposed modification of this NWP.

FOR THE COMMANDER

Date:

HANS A. VAN WINKLE
Major General, U.S. Army
Deputy Commander for
Civil Works